

## 1. IDENTIFICATION

**Product Name: No. 71 Flux**

### Manufacturer/Importer/Supplier/Distributor information

Company : Rotometals, Inc.  
965 Estabrook St  
San Leandro CA 94577  
USA

Telephone: +1 800-779-1102

Fax: +1 888-779-1102

## 2. HAZARD IDENTIFICATION

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Hazardous to the aquatic environment, Category 3 long-term hazard
<b>OSHA defined hazards</b>	Not classified.
<b>Label elements</b>	
<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	Harmful to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Avoid release to the environment.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

### 3. COMPOSITION INFORMATION

Components	CAS Number	%	OSHA PEL
Ammonium Bifluoride	1341-49-7	3-6	2.5 mg/m <sup>3</sup>
Ammonium Chloride	12125-02-9	4-15	NA
Hydrochloric Acid	7647-01-0	3-15	5 mg/m <sup>3</sup>
Zinc Chloride	7646-85-7	30-45	1 mg/m <sup>3</sup>

Unlisted percentages are non-hazardous stabilizers, and water. None of the materials in this product are listed in NTP, IARC, or OSHA as carcinogens.

### 4. FIRST AID MEASURES

<b>Eyes:</b>	Flush with water for 10 minutes. Call a physician.
<b>Skin:</b>	Wash thoroughly with water.
<b>Inhalation:</b>	Remove to fresh air or administer oxygen. Call physician.
<b>Ingestion:</b>	Give water or milk. get medical attention.

### 5. FIRE FIGHTING MEASURES

**Flash Point:** NA

**Flammable Limits:** NA

**Extinguishing Media:** Dry chemical, CO<sub>2</sub> foam

**Auto Ignition Temperature:** None

**Special Fire Fighting Procedures:** Normal cautions when dealing with chemicals.

**Unusual Fire and Explosion Hazards:** Will release small amounts of HCl if heated sufficiently.

### 6. ACCIDENTAL RELEASE MEASURES

**Steps to be Taken in Case Material is Spilled:** First neutralize with soda ash or sodium bicarbonate, dilute with water and dispose of in accordance with EPA regulations.

### 7. HANDLING AND STORAGE

**Storage Requirements:** Store in plastic containers in cool area, away from heat.

**Handling Precautions:** Safe precautionary practices to avoid spills and exposure to skin and fumes.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection (TYPE):** NIOSH approved respirator.

**Ventilation:** Yes

**Mechanical (General):** Yes

**Local Exhaust:** Yes

**Protective Gloves:** Recommended, NIOSH approved

**Other Protective Clothing or Equipment:** Rubber apron is recommended **Eye Protection:**

Safety Glasses

**Regulatory Information:** The chemical components are listed on TSCA and DSL inventory. See composition section ii for CAS numbers.

## 9. PHYSICAL & CHEMICAL PROPERTIES

**Boiling Point:** 104°C/220°F  
**Specific Gravity (Water = 1):** 1.50  
**Vapor Pressure (mm Hg):** NA  
**VOC Content:** 0%  
**Percent Solids:** 56.9%  
**Vapor Density (Air = 1):** NA  
**Evaporation Rate (Butyl Acetate = 1):** 0.6  
**Melting Point:** 0°C/32°F  
**Solubility in Water:** Unlimited  
**Reactivity in Water:** None  
**Appearance and Odor:** Clear odorless liquid

## 10. STABILITY & REACTIVITY

**Stability:** Product is stable  
**(Conditions to Avoid):** Metals  
**Incompatibility:** Alkaline, strong oxidizing or reducing materials, cyanides or combustible materials.  
**Hazardous Decomposition Products:** HCl, zinc chloride, zinc oxide, ammonium.  
**Hazardous Polymerization:** Will not occur  
**(Conditions to Avoid):** Excessive heat or cold

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity Data

- 1) **Oral:** LD-50 (rat): Not available
- 2) **Inhalation:** LC-50 (rat): Not available
- 3) **Dermal:** LD-50 (rabbit): Not available
- 4) **Skin Irritation:** (rabbit): Not available

### Chronic Toxicity Data

- 1) **Repeated Skin Application:** (rat): Not available
- 2) **Eye Irritation:** (rabbit): Not available

## 12. ECOLOGICAL INFORMATION

**This Material has not been Tested for Environmental Effects.**

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose of in accordance with EPA regulations

## 14. TRANSPORTATION

**D.O.T. Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S.

(Contains Zinc Chloride, Hydrochloric Acid)

**Hazard Class:** 8

**Identification Number:** UN3264

**Packing Group:** III

**Type D.O.T Label Required Information:** Corrosive

## 15. OTHER INFORMATION

### REGULATORY INFORMATION

**OSHA Hazardous Chemical According to 29 CFR 1910.1200:** None

**Carcinogenicity Classification (Components Present at 0.1% or More):** Non-Carcinogenic

**International Agency for Research on Cancer (IARC):** Not listed

**American Conference of Governmental Industrial Hygienists (ACGIH):** Not listed

**National Toxicology Program (NTP):** Not listed

**Occupational Safety and Health Administration (OSHA):** Not listed

None of the components of this product are listed on the U.S. toxic substances control act.

Inventory or otherwise comply with TSCA pre-manufacture notification requirements.

This Product is RoHS Compliant.

<b>Prepared By</b>	Rotometals, Inc 865 Estabrook St San Leandro, CA 94577 <a href="mailto:sales@rotometals.com">sales@rotometals.com</a>
<b>Creation Date</b>	20-May-2015
<b>Revision Date</b>	20-May-2015
<b>Print Date</b>	20-May-2015
<b>Revision Summary</b>	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

### Disclaimer

*The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.*